



Base from U.S. Geological Survey Petersburg, 1960;  
Bradfield Canal, 1955; Sundum, 1961, 1971; Port  
Alexander, 1951, 1977; Sitka, 1951, 1970



SCALE 1:250,000  
CONTOUR INTERVAL 200 FEET IN THE UNITED STATES AND 250 FEET IN CANADA  
GLOBE'S MEAN SEA LEVEL

This report is preliminary and has not been  
reviewed for conformity with U.S. Geological  
Survey editorial standards.

**EXPLANATION**  
SAMPLE SITES--Letters are explained on table 1.

**□** Anomalous site--sample locality at which the concentration is considered to deviate from the upper limit of normal background values, as determined by inspection of histograms, percentiles, and enrichment relative to crustal abundance.

**A Concentration**

**NOTE**

This map is one of a series of geochemical maps concerning the Petersburg area, southeast Alaska. For discussion of sample description, collection methods, media selection, sample preparation, statistical data, and analytical techniques, see Cathrall and others (1983).

**REFERENCE**

Cathrall, J. B., Day, G. W., Hoffman, J. D., and McDanal, S. K., 1983, A listing and statistical summary of analytical results for pebbles, stream sediments, and heavy-mineral concentrates from stream sediment, Petersburg area, southeast Alaska: U.S. Geological Survey Open-File Report 83-420-A.

Table 1.--Barium in 1449 minus-80-mesh stream sediment samples, Petersburg area, southeast Alaska.

[Concentrations in parts per million; >, greater than value shown.  
Arithmetic mean, 1021; standard deviation, 1898; geometric mean, 52.9; and  
geometric deviation, 1.7, based on unqualified values within the sample population.]

Concentration	Map symbol	Frequency	Percentile
>5,000	A	2	100
5,000	B	5	99.86
3,000	C	5	99.52
2,000	D	12	99.17
1,500	F	37	98.34
1,000	H	161	95.79
700	J	394	84.68
500	K	447	57.49
300	L	293	26.64
200	M	85	6.42
150	N	3	0.55
100	O	2	.35
70	P	1	.21
50	R	2	.14
			.00

DISTRIBUTION AND ABUNDANCE OF BARIUM, DETERMINED BY SPECTROGRAPHIC ANALYSIS,  
IN THE MINUS-80-MESH FRACTION OF  
STREAM SEDIMENTS, PETERSBURG AREA, SOUTHEAST ALASKA

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